

2022 年度代表性论文

论文名称	发表刊物	卷期页码
Solid-State Fluorescent Carbon Dots with Unprecedented Efficiency from Visible to Near-Infrared Region	Advanced Science	2022, 2205788
Exceeding 67.35% Efficient and Color Temperature Tunable White Light from Carbon Dots with Quadruple-Channel Fluorescence-Phosphorescence Emission	ACS Sustainable Chemistry & Engineering	2022, 10, 47, 15599-15607
Enhanced thermal and mechanical properties of carbon fiber/epoxy composites interleaved with graphene/SiCnw nanostructured films	Composites: Part A	162,107129
Plasmonic Au functionalized 3D SrTiO ₃ /TiO ₂ hollow nanosphere enables efficient solar water splitting	Journal of Alloys and Compounds	930,167449
Design of co-continuous structure of cellulose/PAA-based alkaline solid polyelectrolyte for flexible zinc-air battery	International Journal of Biological Macromolecules	221:446-455
Cross-linked films based on N-hydrophobic-O-hydrophilic chitosan derivatives: Preparation, properties and application in banana storage	Food Hydrocolloids	135,108113
Antifreezing Proton Zwitterionic Hydrogel Electrolyte via Ionic Hopping and Grotthuss Transport Mechanism toward Solid Supercapacitor Working at -50 °C	advanced science	9, 2201679
Construction of Ni/Ni ₃ N heterojunctions as reversible micro-reaction centers for lithium polysulfides	J. Mater. Chem. A	10, 16866
A glass-ceramic approach to prepare porous TiO ₂ with self-supported nano-flakes: The phase evolution and the thermal stability of the product	Ceramics International	48 (2022) 18745-18752
Design of Boron Carbonitrides-Polyaniline (BCN-PANI) assembled supercapacitor with high voltage window	Journal of Colloid and Interface Science	626, 544-553
Effects of LiF additive on crystal structures, lattice vibrational characteristics and dielectric properties of CaWO ₄ microwave dielectric ceramics for LTCC applications	Ceramics International	48,20,29929-29937
Phase engineering of CdS optimized by BP with p-n junction: Establishing spatial-gradient charges transmission mode toward efficient photocatalytic water reduction	Applied Catalysis B: Environmental	2022, 315, 121577
Recent Advances in Perovskite Catalysts for Efficient Overall Water Splitting	Catalysts	2022, 12, 601
Preparation of CaCO ₃ mediated BiOBr that rich (110) facet and research of the photocatalytic properties	Applied Surface Science	598 (2022) 153800
Fabrication of a High-Performance Hybrid Supercapacitor Based on NiCo ₂ S ₄ Nanoneedles/Biomass Porous Carbon	Energy Fuels	36, 5424-5432
High-performance hybrid supercapacitors based on hierarchical NiC ₂ O ₄ /Ni(OH) ₂ nanospheres and biomass-derived carbon	Applied Surface Science	2022,595,153571

Negative permittivity behavior of carbon fibre/alumina ceramic composites prepared by hot-press sintering	Ceramics International	48:10031–10038
Nickel/yttrium iron garnet metacomposites with adjustable negative permittivity behavior toward electromagnetic shielding application	Composites Part A: Applied Science and Manufacturing	155: 106842
ZIF-8 derived porous carbon to mitigate shuttle effect for high performance aqueous zinc–iodine batteries	Journal of Colloid and Interface Science	610 (2022) 98–105
In situ configuration of dual S-scheme BP/(Ti ₃ C ₂ Tx@TiO ₂) heterojunction for broadband spectrum solar-driven photocatalytic H ₂ evolution in pure water	Journal of Colloid and Interface Science	610 (2022) 13-23
Cobalt oxyhydroxide decorating hollow carbon sphere	Chemical Engineering Journal	439, 135790
Cobalt phosphosulfide nanoparticles encapsulated into heteroatom-doped carbon as bifunctional electrocatalyst for Zn air battery	Advanced Powder Materials	2022,1(3)100027
Constructing porous polyimide/carbon quantum dots aerogel with efficient photocatalytic property under visible light	Applied Surface Science	578 (2022) 151993
Controllably regulating ion transport in lithium metal batteries via pore effect of metal–organic framework-based separators	Applied Surface Science	589: 152885
Electric-field assisted hydrolysis-oxidation of MOFs: Hierarchical ternary (oxy)hydroxide micro-flowers for efficient electrocatalytic oxygen evolution	Small	18, 6, 2104863
Design and fabrication of high-entropy oxide anchored on graphene for boosting kinetic performance and energy storage	Ceramics International	2022,48(3)3344-3350
Rechargeable Batteries: Regulating Electronic and Ionic Transports for High Electrochemical Performance	Adv. Mater. Technol.	2022, 7, 2101107
Compositionally complex (Ca, Sr, Ba)ZrO ₃ fibrous membrane with excellent structure stability and NIR reflectance	Materials Characterizations	2022,183:111631
Electrospun flexible calcium zirconate fiber membrane with excellent thermal stability and alkali resistance	Ceramics International	48 (2022) 12408–12414
A new fluorescence “turn on” nanoplatfrom based on conjugated polymer nanoparticles and Au nanorods for the detection of hyaluronidase	Dyes and Pigments	197 (2022) 109844
Decorating CoSe ₂ on N-doped carbon nanotubes as catalysts and efficient polysulfides traps for Li-S batteries	Chemical Engineering Journal	429 (2022) 132167